

Figure 1: Partial bit-stream reconstructions from a progressive encoding of the Venus head model. File sizes are given in bytes and relative L_2 reconstruction error in multiples of 10^{-4} . The right most reconstruction is indistinguishable from the original.

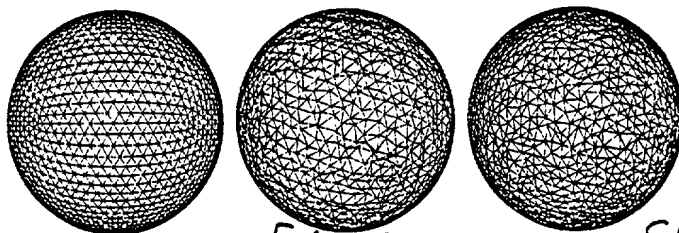


FIG 2A

FIG 2B

FIG 2C

Figure 2: Three spherical meshes each with 2562 vertices: smooth semi-regular (left), non-smooth semi-regular (middle), irregular (right). They have the same geometry information. The middle one also has parameter information while the right one has parameter and connectivity information.

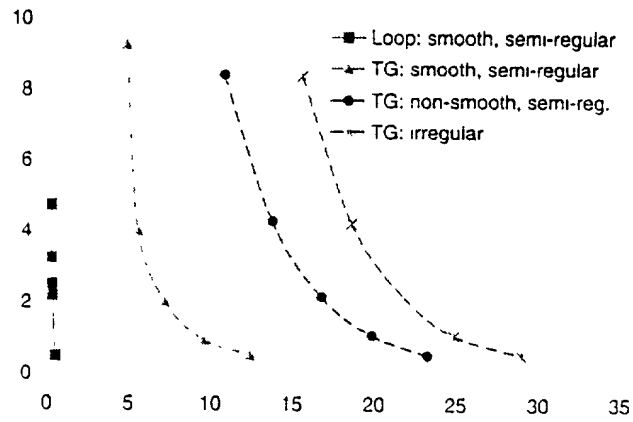


Figure 3: Rate distortion curves for the triangle meshes from Figure 2 measured in relative L^2 error on a scale of 10^{-4} as a function of rate in b/v for TG coordinate quantization levels of 8-12b.

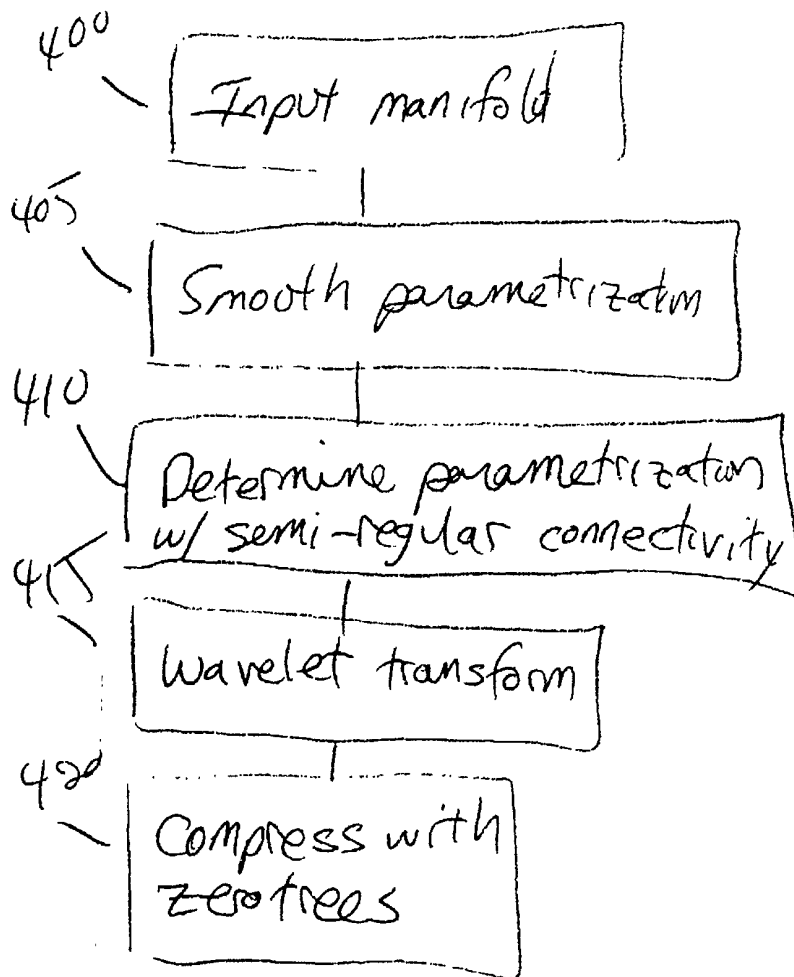


FIG 4

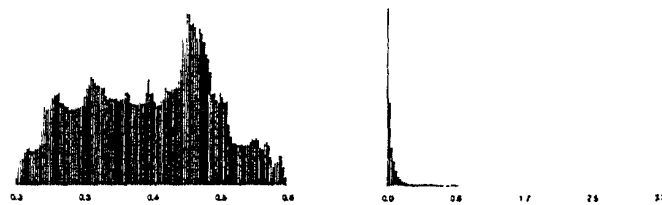


Figure 5: *Histograms of vertex wavelet coefficient magnitudes for Venus, showing the decorrelation power of the wavelets.*

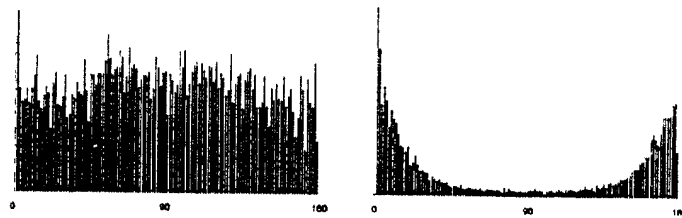


Figure 6: Histograms of wavelet coefficient polar angles for the Venus head model in global (left) and local (right) frames. Coefficients lie mostly in the normal direction.

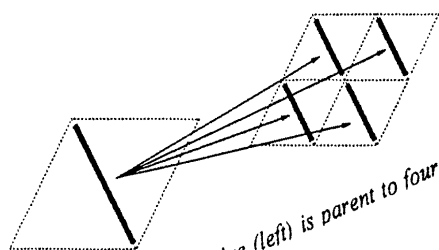


Figure 7: A coarse edge (left) is parent to four finer